

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB 98/00468

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C12N15/12 C07K14/78 C12N15/62 C12N5/10 A61K48/00

According to International Patent Classification(IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 6 C07K C12N A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	WO 93 07889 A (UNIV JEFFERSON) 29 April 1993 cited in the application see abstract; figures 1,4; examples 1.2.6; table 1 ---	1-6,12. 17-21
A	LEES J F AND BULLEID N J: "The role of cysteine residues in the folding and association of the COOH-terminal propeptide of types I and III procollagen" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 269, no. 39, 30 September 1994, pages 24354-24360, XP002071356 cited in the application see abstract; figures 1,10 see section results --- -/-	

Further documents are listed in the continuation of claim 3

Patent family members are listed in annex

### Special categories of cited documents

- 'A' document defining the general state of the art which is not considered to be of particular relevance
- 'E' earlier document but published on or after the international filing date
- 'U' document which may throw doubts on priority (claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- 'O' document referring to an oral disclosure, use, exhibition or other means
- 'P' document published prior to the international filing date but later than the priority date claimed

- 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- 'X' document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- 'Y' document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- 'S' document member of the same patent family

Date of the actual completion of the international search

15 July 1998

Date of mailing of the international search report

28.07.98

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 699 752 A (COLLAGEN CORP) 6 March 1996 see the claims see abstract; examples 2,3 ---	
X,P	WO 97 08311 A (UNIV MANCHESTER :BULLEID NEIL (GB); KADLER KARL (GB)) 6 March 1997 cited in the application see abstract; figures 1,3,4 see page 2 - page 3 see page 5, paragraph 3 - page 13, paragraph 2 see page 16 - page 22 ---	1-27
X,P	LEES J F ET AL: "Identification of the molecular recognition sequence which determines the type-specific assembly of procollagen" EMBO JOURNAL. vol. 16, no. 5, 3 March 1997, pages 908-916. XP002071357 see the whole document ---	1-4,6, 11-22
X,P	MYLLYHARJU J ET AL: "Expression of wild-type and modified proalpha chains of human type I collagen in insect cells leads to the formation of ..." JOURNAL OF BIOLOGICAL CHEMISTRY. vol. 272, no. 35, 29 August 1997. pages 21824-21830. XP002071358 see the whole document -----	1-3,6. 11-21